

H $\alpha$  SOLAR FLARES

NOVEMBER 1992

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp (Min)	Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																	Apparent (10-6 Disk)	Corr (Sq Deg)	
0001	VORO	01	0035	0042	0102	S25	W88	7321	10	25.3	27	SF		2	C	0042	27		DHJ
0002	VORO	01	0108	0109	0117	S25	W88	7321	10	25.3	9	SF		2	C	0109	36		DHJ
			01 1223		1228			No Flare Patrol											
			01 1253		1257			No Flare Patrol											
			01 1403		1411			No Flare Patrol											
			01 1417		1427			No Flare Patrol											
			01 1436		1447			No Flare Patrol											
0003	HOLL	01	1638	1643	1651	S09	E73	7330	11	7.2	13	SF		3	E		28		
			01 1855		1904			No Flare Patrol											
			01 2009		2014			No Flare Patrol											
0004	HOLL	01	2105	2111	2140	S14	W37	7323	10	30.2	35	SF	C 1.2	3	E		56		
			01 2228		2317			No Flare Patrol											
0005	VORO	02	0153	0200	0226	S13	W42	7323	10	30.0	33	SF		2	C	0200	90	1.3	EJ
0006	MITK	02	0310	0314	0427	S23	W90	7321	10	26.3	77	2B				0314	228		M
0007	TACH	02	0744		0748D	N23	W31		10	31.0	4D	SB		1	C	0746	44	0.6	EG
0008		02	0748	0748	0805	N16	W18	7328	10	31.9	17	SF					19		F
	LEAR	02	0748	0748	0804	N15	W19	7328	10	31.9	16	SF		3	E		19		F
	KANZ	02	0750E	0750U	0806	N16	W18	7328	11	1.0	16D	SF		2	C				
0009		02	09091	09104	0930	N17	W21	7328	10	31.8	21	SF					23		F
	LEAR	02	0909	0910	0931	N16	W21	7328	10	31.8	22	SF		3	E		23		F
	KANZ	02	0910	0914	0930	N18	W21	7328	10	31.8	20	SF		2	C				
0010		02	09406	09543	1002	S15	W46	7323	10	30.0	22	SF					50		F
	LEAR	02	0940	0957	1002	S16	W46	7323	10	30.0	22	SF		3	E		50		F
	KANZ	02	0946	0954	1002	S14	W45	7323	10	30.1	16	SF		2	C				
0011	KANZ	02	1102	1102	1106	S16	W44	7323	10	30.2	4	SF		2	C				
0012		02	1226	12261	1324	S16	W48	7323	10	30.0	58	SF					18		
	KANZ	02	1226	1226	1322	S16	W48	7323	10	30.0	56	SF		2	C				
	SVTO	02	1226	1227	1325	S16	W49	7323	10	29.9	59	SF		3	E		18		
0013	SVTO	02	1226	1322	1339	S06	E61	7330	11	7.1	73	SF		3	E		28		
0014	KANZ	02	1334	1334	1338	S17	W44	7323	10	30.3	4	SF		2	C				
0015	HOLL	02	1730	1739	1748	S08	E60	7330	11	7.2	18	SF		3	E		20		
			02 1829		1910			No Flare Patrol											
0016	LEAR	03	0010	0012	0051D	S15	W53	7323	10	30.1	41D	SF	C 1.0	4	E		51		F
0017	LEAR	03	0220	0221	0243	S15	W54	7323	10	30.1	23	SF		3	E		26		F
0018	LEAR	03	0731	0740	0805	N16	W33	7328	10	31.8	34	1F	C 1.1	3	E		117		F
0019	KAND	03	1000		1008	S15	W20	7325	11	1.9	8	SF			P	1003	42	0.5	E
0020	SVTO	03	1042	1046	1118	N16	W35	7328	10	31.8	36	SF	C 1.1	3	E		41		F
0021	SVTO	03	1130	1130	1141	S05	W26	7326	11	1.5	11	SF	B 8.4	3	E		15		
			03 1236		1304			No Flare Patrol											
			03 1316		1326			No Flare Patrol											
0022		04	01303	01351	0148	S22	W16	7332	11	2.8	18	1N	C 1.4				106	1.2	D
	LEAR	04	0130	0135	0157	S23	W16	7332	11	2.8	27	1F	C 1.4	3	E		111		
	MITK	04	0133	0136	0140	S22	W16	7332	11	2.8	7	SN				0136	100	1.2	D

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0023	MITK	04	0455	0455	0457	S19	W18	7332	11	2.8	2	SF				0455	88	1.0	E
			04 1241		1243			No Flare Patrol											
			04 1254		1339			No Flare Patrol											
			04 1513		1544			No Flare Patrol											
			04 2137		2139			No Flare Patrol											
			04 2141		2149			No Flare Patrol											
			04 2155		2206			No Flare Patrol											
			04 2233		2244			No Flare Patrol											
0024	HOLL	04	2235	2235	2244	S10	E33	7330	11	7.4	9	SF		3	E		21		
			04 2246		2319			No Flare Patrol											
0025	VORO	05	0130E	0135U	0154D	S22	W15	7332	11	3.9	24D	SF		2	C	0136	134	1.6	DJT
0026	VORO	05	0220	0222	0230	S20	W17	7332	11	3.8	10	SF		2	C	0222	99	1.2	EJT
0027	TACH	05	0618	0620	0634	S16	W90	7323	10	29.5	16	SB		3	C	0620	26		D
0028	SVTO	05	0746E	0748U	0837	N15	E75	7334	11	11.0	51D	SF		2	E		45		F
0029	SVTO	05	0911E	0913U	0920D	N16	E82	7334	11	11.6	9D	SF C	4.3	2	E		41		F
0030	KANZ	05	0920E	0924	0928	S16	W79	7323	10	30.5	8D	SF		2	C				
0031		05	1324	13241	1331	N14	E82	7334	11	11.7	7	SF C	2.2				22		F
	KANZ	05	1324	1324	1332	N14	E81	7334	11	11.7	8	SF		2	C				
	RAMY	05	1324	1325	1330	N14	E82	7334	11	11.7	6	SF C	2.2	4	E		22		F
			05 1815		1829			No Flare Patrol											
			05 1851		2018			No Flare Patrol											
			05 2046		2058			No Flare Patrol											
			05 2120		2125			No Flare Patrol											
			06 0000		0027			No Flare Patrol											
			06 0029		0043			No Flare Patrol											
0032	LEAR	06	0352	0424	0444	N14	E69	7334	11	11.4	52	SF		2	E		35		
0033	SVTO	06	0655	0735	0744	N16	E70	7334	11	11.6	49	SF		3	E		17		
0034		06	08312	0835*	0910	N14	E68	7334	11	11.5	39	SF					18		
	KANZ	06	0831	0835	0911	N13	E67	7334	11	11.4	40	SF		2	C				
	SVTO	06	0833	0846	0910	N15	E68	7334	11	11.5	37	SF		3	E		18		
0035		06	0957*	0959*	1047	N14	E67	7334	11	11.5	50	SF C	1.6				18		
	SVTO	06	0957	0959	1012	N15	E68	7334	11	11.6	15	SF		3	E		18		
	KANZ	06	0959	1055	1107	N13	E66	7334	11	11.4	68	SF		2	C				
	SVTO	06	1049	1054	1102	N15	E68	7334	11	11.6	13	SF C	1.6	4	E		19		
0036	KANZ	06	1155	1159	1207	N09	E62	7334	11	11.1	12	SF		2	C				
0037		06	1303	1307	1334	S10	E08	7330	11	7.1	31	SF					33		F
	KANZ	06	1303	1307	1326	S10	E07	7330	11	7.1	23	SF		2	C				
	SVTO	06	1317E	1317U	1343	S09	E10	7330	11	7.3	26D	SF		3	E		33		F
0038	SVTO	06	1345	1345	1352	N15	E63	7334	11	11.3	7	SF		3	E		18		
0039		06	13593	14002	1448	S09	E06	7330	11	7.0	49	SF C	1.1				30		F
	SVTO	06	1359	1400	1454	S09	E07	7330	11	7.1	55	SF C	1.1	3	E		30		F
	KANZ	06	1402	1402	1442	S09	E06	7330	11	7.0	40	SF		2	C				
0040		06	14141	14183	1425	N14	E63	7334	11	11.3	11	SF C	1.3				27		
	KANZ	06	1414	1418	1422	N13	E64	7334	11	11.4	8	SF		2	C				
	SVTO	06	1415	1421	1428	N15	E62	7334	11	11.3	13	SF C	1.3	3	E		27		
0041	HOLL	06	1817	1818	1827	S15	W59	7325	11	2.3	10	SF		3	E		68		
0042	PALE	06	1840	1851	1859	S19	E64	7335	11	11.7	19	SF		3	E		25		

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																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0043	HOLL	06	1841	1843	1846	N12	E58	7334	11	11.1	5	SF		3	E		21			
0044	HOLL	06	2059	2100	2116	S19	E66	7335	11	11.9	17	SF B	8.1	3	E		26			
0045	HOLL	06	2303	2308	2324	S06	W72	7326	11	1.6	21	SF		3	E		37			F
0046		07	02155	0216*	0227	S17	E61	7335	11	11.7	12	SF B	7.4				44	1.5		DJ
	LEAR	07	0215	0216	0222	S18	E61	7335	11	11.7	7	SF B	7.4	3	E		39			
	VORO	07	0215	0216	0223	S17	E63	7335	11	11.9	8	SF		2	C	0216	63	1.5		DJ
	PALE	07	0220	0229	0237	S17	E60	7335	11	11.6	17	SF		3	E		30			
0047	LEAR	07	0253	0255	0259	S21	E67	7335	11	12.2	6	SF		3	E		11			
		07	0301		0317	No Flare Patrol														
0048	LEAR	07	0340	0345	0349	S07	E03	7330	11	7.4	9	SF		3	E		17			
		07	0434		0459	No Flare Patrol														
0049	TACH	07	0528	0533	0554	S09	W78	7326	11	1.4	26	SN		2	C	0533	46			E
0050	TACH	07	0638	0647	0651	S07	E04	7330	11	7.6	13	SB		2	C	0647	40	0.4		E
0051	KANZ	07	0818	0818	0822	S06	E01	7330	11	7.4	4	SF		2	C					
0052	KANZ	07	1242	1250	1254	S08	W78	7326	11	1.7	12	SF		2	C					
0053	KANZ	07	1422	1422	1426	S08	W11	7330	11	6.8	4	SF		2	C					
0054		07	1625E	1626U	1717	S21	W64	7332	11	2.8	52D	1F C	3.7				152			HU
	HOLL	07	1625E	1634U	1717	S22	W63	7332	11	2.8	52D	1F C	3.7	3	E		181			UH
	RAMY	07	1626E	1626U	1658D	S20	W65	7332	11	2.7	32D	1F		3	E		122			H
		07	2400		2400	No Flare Patrol														
0055	PALE	08	0040	0045	0105	N12	E43	7334	11	11.3	25	SF		3	E		18			
0056	KANZ	08	0741	0749	0753	S22	W69	7332	11	3.0	12	SF		2	C					
0057	KANZ	08	0745	0745	0749	N09	E39	7334	11	11.2	4	SF		2	C					
0058	SVTO	08	1311	1313	1331	S09	W16	7330	11	7.3	20	SF C	1.3	3	E		47			F
0059	SVTO	08	1419E	1422U	1434	S09	W18	7330	11	7.2	15D	SN C	5.0	2	E		31			F
0060	HOLL	08	2024	2030	2041	S20	W75	7332	11	3.1	17	SN C	1.1	3	E		94			
0061	PALE	08	2208	2210	2222	S08	W18	7330	11	7.6	14	SF B	9.4	3	E		48			
0062	PALE	09	0010	0012	0027	N12	E34	7334	11	11.6	17	SF		3	E		28			
0063		09	0027	0032I	0118	S08	W25	7330	11	7.1	51	1N C	2.8				76	0.6		EF
	PALE	09	0017E	0032	0118	S09	W24	7330	11	7.2	61D	1F C	2.8	3	E		103			F
	WATU	09	0027	0033	0033D	S07	W26	7330	11	7.1	6D	SN			P	0033	50	0.6		E
0064	PALE	09	0101	0102	0110	N11	E25	7334	11	10.9	9	SF		3	E		20			
0065	PALE	09	0129	0130	0135	S17	E38	7335	11	11.9	6	SF		3	E		15			
0066	PALE	09	0158	0230	0236	S10	W20	7330	11	7.6	38	SF		3	E		35			
0067	PALE	09	0236	0237	0248	S10	W24	7330	11	7.3	12	SF		3	E		36			
0068	PALE	09	0227	0238	0249	S21	E41	7335	11	12.2	22	SF		3	E		31			
0069	SVTO	09	1434E	1435U	1444	S08	W30	7330	11	7.3	10D	SF C	1.8	2	E		18			F
0070	HOLL	09	1527	1532	1537	N08	W42	7336	11	6.5	10	SF		3	E		11			F

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	NOAA/ USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
														Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0071		09	1721	1731	1750	S07	W31 7330	11	7.4	29	SF C 2.8				42		F
	HOLL	09	1721	1731	1750	S09	W33 7330	11	7.2	29	SF C 2.8	3	E		37		F
	PALE	09	1727E	1731U	1750D	S05	W29 7330	11	7.5	23D	SF	2	E		47		F
		09	2038		2048		No Flare Patrol										
		09	2123		2137		No Flare Patrol										
0072		09	2251*	23022	2322	S10	W36 7330	11	7.2	31	SF				36		F
	PALE	09	2251	2304	2310	S11	W36 7330	11	7.2	19	SF	3	E		37		F
	LEAR	09	2302	2302	2335	S09	W36 7330	11	7.2	33	SF	3	E		36		
		09	2302		2335		No Flare Patrol										
0073		09	2355*	2356*	2420	S09	W37 7330	11	7.2	25	SF				33		
	PALE	09	2355	2356	2414	S11	W37 7330	11	7.2	19	SF	3	E		31		
	LEAR	10	0014	0016	0025	S07	W37 7330	11	7.2	11	SF	3	E		35		
0074	PALE	10	0043	0051	0112	S09	W34 7330	11	7.5	29	SF B 6.0	2	E		39		
0075	LEAR	10	0625	0627	0636	S09	W40 7330	11	7.3	11	SF B 8.9	3	E		34		F
0076		10	08063	0810	0820	S10	W41 7330	11	7.2	14	SF C 1.3				46		EF
	LEAR	10	0806	0810	0820	S10	W41 7330	11	7.2	14	SF C 1.3	3	E		63		FE
	SVTO	10	0809	0810	0820	S10	W41 7330	11	7.2	11	SF C 1.3	3	E		28		F
0077		10	1109	1113	1124	S18	E19 7335	11	11.9	15	SF B 8.4				16		F
	KANZ	10	1109	1113	1121	S18	E20 7335	11	12.0	12	SF	2	C				
	SVTO	10	1109	1113U	1127	S17	E18 7335	11	11.8	18	SF B 8.4	3	E		16		F
0078	KANZ	10	1141	1145	1205	N10	E08 7334	11	11.1	24	SF	2	C				
0079		10	1149*	1153*	1220	S04	E81 7341B	11	16.5	31	SF C 1.4				26		H
	KANZ	10	1149	1153	1221	S06	E79 7341B	11	16.4	32	SF	2	C				
	SVTO	10	1200	1206	1218	S03	E83 7341B	11	16.7	18	SF C 1.4	3	E		26		H
0080	KANZ	10	1213	1225	1301	S18	E15 7335	11	11.6	48	SF	2	C				
		10	1922		1941		No Flare Patrol										
		10	2046		2111		No Flare Patrol										
0081		10	23454	23493	2410	N10	E00 7334	11	11.0	25	SN C 2.2				101	1.2	EF1JTUZ
	VORO	10	2345	2352	2421	N10	W02 7334	11	10.8	36	SN	2	C	2352	188	2.0	E1JT
	PALE	10	2346	2349	2414	N10	W01 7334	11	10.9	28	1F	3	E		113		U
	LEAR	10	2346	2350	2421	N11	E00 7334	11	11.0	35	1F C 2.2	3	E		109		ZF
	WATU	10	2347	2349	2358	N07	W00 7334	11	11.0	11	SN		C	2349	70	0.7	E
	MITK	10	2349	2350	2357	N11	W01 7334	11	10.9	8	SN			2350	86	0.9	E
	HOLL	10	2349E	2351U	2352D	N12	E06 7334	11	11.4	3D	SF	1	E		41		
0082		11	00272	00302	0047	N10	W02 7334	11	10.9	20	SF				61	1.1	EF1JT
	VORO	11	0027	0032	0050	N10	W02 7334	11	10.9	23	SF	2	C	0032	108	1.1	E1JT
	LEAR	11	0029	0030	0044	N10	W01 7334	11	10.9	15	SF	3	E		14		F
0083	LEAR	11	0514	0515	0519	S18	E08 7335	11	11.8	5	SF B 4.9	3	E		16		F
0084	LEAR	11	0739	0740	0745	S18	E07 7335	11	11.8	6	SF B 4.8	3	E		47		F
0085		11	07481	08181	0843	N10	W04 7334	11	11.0	55	SN B 5.4				160	2.3	EF
	LEAR	11	0748	0819	0848	N11	W04 7334	11	11.0	60	SF B 5.4	3	E		92		F
	KAND	11	0749	0818	0838	N10	W04 7334	11	11.0	49	1B		P	0818	229	2.3	EF
	KANZ	11	0754E	0818U	0834D	N10	W03 7334	11	11.1	40D	SF	2	C				
		11	0941		0942		No Flare Patrol										
		11	1022		1029		No Flare Patrol										
0086	LEAR	12	0028	0039	0057	N04	E69 7337	11	17.2	29	SF C 1.0	3	E		96		F
0087		12	01433	01457	0208	S07	W66 7330	11	7.1	25	SF				34		
	LEAR	12	0143	0145	0200	S07	W65 7330	11	7.2	17	SF	3	E		45		
	PALE	12	0146	0152	0215	S07	W66 7330	11	7.1	29	SF	3	E		23		

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						Region	Class								Apparent (10-6 Disk)	Corr (Sq Deg)		
0088		12	08273	0838	0856	N04 E62	7337	11	17.0	29	SF B	5.7			64	1.9		
	LEAR	12	0827	0838	0858	N04 E61	7337	11	16.9	31	SF B	5.7	3	E	46			
	KAND	12	0830		0855	N04 E64	7337	11	17.1	25	SF			P	0830	83	1.9	
0089	LEAR	12	0853	0857	0906	N08 W13	7334	11	11.4	13	SF		3	E		29		F
		12	1535		1601	No Flare Patrol												
0090		12	2039	20392	2052	N06 E56	7337	11	17.0	13	SF B	4.0			26			
	PALE	12	2039	2039	2048	N08 E57	7337	11	17.1	9	SF		3	E	26			
	HOLL	12	2039	2041	2055	N04 E56	7337	11	17.0	16	SF B	4.0	3	E	26			
0091	WATU	13	0131	0137	0242	S17 W15	7335	11	11.9	71	SN			C	0137	20	0.2	EZ
		13	1200		1304	No Flare Patrol												
		13	1316		1341	No Flare Patrol												
		13	1410		1426	No Flare Patrol												
0092	HOLL	13	1557	1609	1625	N05 E45	7337	11	17.0	28	SF		3	E		34		
		13	1851		2019	No Flare Patrol												
		13	2043		2126	No Flare Patrol												
		13	2128		2136	No Flare Patrol												
		13	2207		2317	No Flare Patrol												
		13	2319		2349	No Flare Patrol												
0093	HOLL	14	1606	1622	1743	S08 E29	7342	11	16.8	97	SF		3	E		76		F
0094	HOLL	14	2119	2129	2146	S17 W15	7339	11	13.7	27	SF		3	E		28		
		14	2355		2400	No Flare Patrol												
		15	0000		0021	No Flare Patrol												
	15	0040		0054	No Flare Patrol													
0095		15	1901	1915*	2052	S17 W53	7335	11	11.8	111	SF				34		K	
	HOLL	15	1901	1915	2052	S17 W53	7335	11	11.8	111	SF		3	E	25			
	HOLL	15	1901	2040	2052	S17 W53	7335	11	11.8	111	SF			E	42		K	
0096	LEAR	15	2243	2246	2324	S18 W57	7335	11	11.6	41	SF		3	E		22		F
0097	PALE	16	0008	0019	0022	S20 E79	7345	11	22.0	14	SF		3	E		37		
0098	PALE	16	0047	0050	0057	S20 E78	7345	11	22.0	10	SF		3	E		35		
0099	PALE	16	0147	0202	0224	S19 E77	7345	11	21.9	37	SF C	4.0	3	E		82		
0100	PALE	16	0213	0213	0225	S18 W56	7335	11	11.8	12	SF		3	E		16		
		16	1333		1349	No Flare Patrol												
		16	1425		1447	No Flare Patrol												
		16	1626		1647	No Flare Patrol												
0101	HOLL	16	1658	1702	1722	S15 W21	7341	11	15.1	24	SF		3	E		20		
0102	HOLL	16	1718	1724	1731	S25 E69	7345	11	22.1	13	SF		3	E		10		
		16	1759		1805	No Flare Patrol												
0103	HOLL	16	1831	1833	1840	S17 W67	7335	11	11.7	9	SF		3	E		21		
0104	HOLL	16	1953	2001	2015	S25 E68	7345	11	22.1	22	SF C	2.1	3	E		14		
0105		16	2130	2137	2203	S24 E72	7345	11	22.4	33	1F C	3.7			92		U	
	HOLL	16	2130	2137	2203	S26 E69	7345	11	22.2	33	SF C	3.7	3	E	77		U	
	PALE	16	2130E	2137U	2210D	S23 E74	7345	11	22.6	40D	1F		3	E	107		U	
0106	PALE	16	2201	2205	2210	S16 W22	7341	11	15.2	9	SF		3	E		14		
		16	2300		2323	No Flare Patrol												



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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Time (UT)	Measurement Apparent (10-6 Disk)	Corr (Sq Deg)	Remarks
0128	KANZ	18	1213	1213	1221	S11	W17	7342	11	17.2	8	SF		2	C				
0129	HOLL	18	1902	1938	2331	S24	E46	7345	11	22.3	269	2N M	1.3	3	E		305		FU
0130	HOLL	18	1959	1959	2007	S16	W48	7341	11	15.2	8	SF		3	E		11		
0131	HOLL	18	2141	2153	2239	N05	W24	7337	11	17.1	58	SF		3	E		97		F
0132	HOLL	18	2239	2241	2248	S07	E60	7346	11	23.4	9	SF		3	E		13		
0133	LEAR	18	2304	2304	2330	S15	W50	7341	11	15.2	26	SF		3	E		20		F
	HOLL	18	2304	2308	2319	S18	W50	7341	11	15.1	15	SF		3	E		20		F
		18	2304	2308	2319	S18	W50	7341	11	15.1	15	SF		3	E		19		F
		18	2333		2345	No Flare Patrol													
		18	2347		2349	No Flare Patrol													
		18	2351		2400	No Flare Patrol													
		19	0215		0224	No Flare Patrol													
		19	0233		0237	No Flare Patrol													
		19	0247		0256	No Flare Patrol													
		19	0312		0314	No Flare Patrol													
0134	SVTO	19	10181	1019	1026	S08	E56	7346	11	23.6	8	SF B	9.8				19		
	KANZ	19	1018	1019	1024	S06	E54	7346	11	23.5	6	SF B	9.8	3	E		19		
		19	1019	1019	1027	S10	E58	7346	11	23.8	8	SF		2	C				
		19	1827		1832	No Flare Patrol													
0135	HOLL	19	2018*	2026*	2124	S26	E36	7345	11	22.6	66	1N C	9.9				214		U
	RAMY	19	2018	2026	2149	S28	E38	7345	11	22.8	91	2B C	9.9	3	E		414		U
		19	2054	2058	2100	S25	E33	7345	11	22.4	6	SF		3	E		14		
0136	HOLL	19	2237	2241	2254	S08	E47	7346	11	23.5	17	SF		3	E		20		
0137	LEAR	19	2328	2341	2350	S22	E35	7345	11	22.7	22	SF C	5.6	3	E		56		F
		19	2347		2348	No Flare Patrol													
		19	2350		2400	No Flare Patrol													
		20	0000		0011	No Flare Patrol													
0138	LEAR	20	0026	0035	0046	S10	W09	7340	11	19.3	20	SF		3	E		48		
0139	VORO	20	0112	0117	0140	S16	E42	7345A	11	23.2	28	SF		2	C	0117	72	1.1	EIJ
0140	KANZ	20	1110	1118	1214	N11	W25		11	18.6	64	SF		2	C				
		20	1815		1932	No Flare Patrol													
		20	2036		2047	No Flare Patrol													
		20	2130		2134	No Flare Patrol													
		20	2233		2306	No Flare Patrol													
		20	2308		2348	No Flare Patrol													
		20	2350		2351	No Flare Patrol													
0141	SVTO	21	07091	0711	0725	S17	W84	7341	11	14.9	16	SF C	5.0				38		
	LEAR	21	0709	0711	0724	S16	W80	7341	11	15.2	15	SF		3	E		41		
		21	0710	0711	0726	S18	W89	7341	11	14.5	16	SF C	5.0	3	E		36		
0142	KANZ	21	0935	0935	0947	S21	E12	7345	11	22.3	12	SF		2	C				
0143	SVTO	21	1239	1239	1246	S03	E29	7346	11	23.7	7	SF		3	E		16		
0144	HOLL	21	1550E	1554U	1611D	S22	E09	7345	11	22.3	21D	SF C	1.5	2	E		62		F
		21	1600		1608	No Flare Patrol													
		21	1647		1657	No Flare Patrol													
0145	HOLL	21	1729	1736	1744	S25	E08	7345	11	22.3	15	SF		2	E		27		
0146	HOLL	21	1858	1903	1911	S24	E11	7345	11	22.6	13	SF		3	E		19		F

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks		
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)			
0147	HOLL	21	1959	2000	2037	S08	E21	7346	11	23.4	38	SF	C	1.2	3	E		29		F	
0148	LEAR	21	2211	2211	2220	S07	W63	7342	11	17.2	9	SF			3	E		11			
0149	LEAR	22	0333	0338	0345	S25	E06	7345	11	22.6	12	SF			3	E		17		F	
0150	LEAR	22	0347	0351	0359	S08	E01	7347	11	22.2	12	SF	C	1.2	3	E		37		F	
0151		22	09013	09044	0914	S26	W00	7345	11	22.4	13	SF						21			
	LEAR	22	0901	0908	0911	S25	W01	7345	11	22.3	10	SF			3	E		21			
	KANZ	22	0904	0904	0916	S26	W00	7345	11	22.4	12	SF			2	C					
0152	KANZ	22	0908	0908	0912	S09	W01	7347	11	22.3	4	SF			2	C					
0153		22	09527	1000	1017	S24	E04	7345	11	22.7	25	SF						23			
	KANZ	22	0952	1000	1012	S25	E03	7345	11	22.6	20	SF			2	C					
	SVTO	22	0959	0959U	1022	S22	E04	7345	11	22.7	23	SF			2	E		23			
0154	KANZ	22	1016	1016	1028	S07	E14	7346	11	23.5	12	SF			2	C					
0155		22	11391	11403	1152	N10	E80	7348	11	28.5	13	SN	C	3.3				68			
	SVTO	22	1139	1143	1145D	N12	E81	7348	11	28.6	60	SN	C	3.3	2	E		68			
	KANZ	22	1140	1140	1152	N09	E80	7348	11	28.5	12	SN			2	C					
0156	KANZ	22	1304	1304	1316	N10	E84	7348	11	28.8	12	SN			2	C					
0157	KANZ	22	1320	1320	1324	S06	E14	7346	11	23.6	4	SF			2	C					
		22	1357		1358	No Flare Patrol															
		22	1935		1945	No Flare Patrol															
		22	2010		2129	No Flare Patrol															
		22	2131		2133	No Flare Patrol															
		22	2231		2347	No Flare Patrol															
0158	LEAR	22	2258	2308	2326	N11	E76	7348	11	28.7	28	2N	M	1.6	3	E		297			
0159	LEAR	22	2350	2354		N12	E73	7348	11	28.5		1F			3	E		144			
		22	2350		2352	No Flare Patrol															
0160	LEAR	23	0004	0009	0014	S07	W11	7347	11	22.2	10	SF			3	E		21			
0161	LEAR	23	0009	0011	0014	N12	E73	7348	11	28.5	5	SF			3	E		32			
0162	LEAR	23	0059	0101	0106	N10	E74	7348	11	28.6	7	SF			3	E		39			
0163	LEAR	23	0145	0147	0203	S09	W77	7342	11	17.3	18	SF			3	E		21			
0164	LEAR	23	0158	0158	0210	N12	E72	7348	11	28.5	12	SF			3	E		60			
0165	LEAR	23	0309	0312	0319	N10	E75	7348	11	28.8	10	SF			3	E		50			
0166	LEAR	23	0319	0320	0331	N10	E75	7348	11	28.8	12	SF			3	E		36			
0167	LEAR	23	0331	0344	0355	N09	E74	7348	11	28.7	24	1F	C	8.5	3	E		195		F	
0168	LEAR	23	0356	0445	0445D	S09	W80	7342	11	17.1	49D	SF			3	E		79			
0169		23	04291	04323	0449	S08	W14	7347	11	22.1	20	SN	C	9.1				86	1.0	EFU	
	WATU	23	0429	0434	0443	S08	W14	7347	11	22.1	14	SN				C	0434	50	0.5	E	
	LEAR	23	0430	0432	0455	S09	W13	7347	11	22.2	25	SN	C	9.1	3	E		63		FE	
	MITK	23	0430	0435	0449	S08	W14	7347	11	22.1	19	SB					0435	146	1.6	U	
0170	TACH	23	0500E		0624	S06	W15	7347	11	22.1	84D	1N			3	C	0500	204	2.2	E	
0171		23	05241	0532*	0622	S08	W80	7342	11	17.2	58	SN						38		D	
	TACH	23	0524	0532	0622	S06	W80	7342	11	17.2	58	SB			3	C	0532	36		D	
	LEAR	23	0525	0559	0623	S10	W81	7342	11	17.1	58	SF			3	E		41			



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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Imp Opt	Xray	See	Obs Type	Time (UT)	Area Measurement		Remarks	
																(10-6 Disk)	Corr (Sq Deg)		
0172	LEAR	23	0559	0610	0616	N11	E70	7348	11	28.5	17	SF		3	E		59		
0173		23	0826*	0838U	0849	S10	W80	7342	11	17.3	23	SF					49		
	LEAR	23	0826	0838U	0848	S10	W82	7342	11	17.2	22	SF		3	E		61		
	SVTO	23	0838	0838U	0850	S09	W78	7342	11	17.5	12	SF		3	E		37		
0174		23	08442	08503	0905	N10	E72	7348	11	28.8	21	1N C	5.8				112		F
	SVTO	23	0844	0852	0905	N11	E70	7348	11	28.6	21	1F		3	E		100		F
	LEAR	23	0845	0853	0905	N09	E71	7348	11	28.7	20	1N C	5.8	3	E		130		F
	BUCA	23	0846	0850	0905	N11	E75	7348	11	29.0	19	1N			C	0850	107		
0175	SVTO	23	0912	0915	0926	S07	W17	7347	11	22.1	14	SF		3	E		23		F
0176	SVTO	23	0913	0915	0921	N11	E68	7348	11	28.5	8	SF		3	E		34		
0177	SVTO	23	0927	0929	0940	N11	E72	7348	11	28.8	13	SF		3	E		46		F
0178		23	09296	09452	1009	S08	W16	7347	11	22.2	40	1F C	5.0				140	2.3	F
	SVTO	23	0929	0946	1012	S09	W16	7347	11	22.2	43	SF		3	E		97		F
	LEAR	23	0931	0947	1006	S09	W16	7347	11	22.2	35	1F C	5.0	3	E		108		F
	KANZ	23	0933E	0945	1017	S08	W16	7347	11	22.2	44D	1F		2	C				
	BUCA	23	0935	0947	1000	S07	W17	7347	11	22.1	25	1N			C	0947	215	2.3	
0179		23	0933	09352	0944	S09	W79	7342	11	17.5	11	SF					36		
	SVTO	23	0933	0935	0940	S09	W79	7342	11	17.5	7	SF		3	E		26		
	LEAR	23	0933	0935	0946	S10	W83	7342	11	17.2	13	SF		3	E		45		
	KANZ	23	0933E	0937	0945	S08	W76	7342	11	17.7	12D	SN		2	C				
0180		23	09455	09503	1012	S16	W16	7345	11	22.2	27	SF					11		
	KANZ	23	0945	0953	1013	S16	W16	7345	11	22.2	28	SF		2	C				
	SVTO	23	0950	0950	1011	S16	W16	7345	11	22.2	21	SF		3	E		11		
0181	RAMY	23	1336	1336	1342	S08	W19	7347	11	22.1	6	SF		3	E		19		F
0182		23	1341	1409	1420	N11	E72	7348	11	29.0	39	SF					30		F
	RAMY	23	1341	1409	1419	N11	E72	7348	11	29.0	38	SF		3	E		20		
	SVTO	23	1401E	1401U	1421	N11	E72	7348	11	29.0	20D	SF		2	E		40		F
0183	RAMY	23	1357	1359	1402	S08	W89	7342	11	16.9	5	SF C	4.0	3	E		15		
0184	RAMY	23	1410	1416U	1426	S08	W19	7347	11	22.2	16	SF		3	E		41		F
0185	RAMY	23	1428	1437	1458	S08	W19	7347	11	22.2	30	SF		3	E		20		F
0186		23	1742	17441	1800	S08	W20	7347	11	22.2	18	SF C	2.4				21		F
	RAMY	23	1742	1744	1800	S08	W20	7347	11	22.2	18	SF C	2.4	3	E		17		F
	PALE	23	1743E	1745	1805D	S08	W20	7347	11	22.2	22D	SF C	2.4	3	E		25		F
0187		23	19231	19283	1944	S09	W20	7347	11	22.3	21	SF C	4.3				46		F
	PALE	23	1923	1931	1952	S09	W20	7347	11	22.3	29	SF C	4.3	3	E		70		
	RAMY	23	1924	1928	1937	S09	W21	7347	11	22.2	13	SF		3	E		23		F
0188	PALE	23	2018	2029U	2101D	S08	W89	7342	11	17.2	43D	SF M	4.4	2	E		43		
		23	2251		2330	No Flare Patrol													
0189	LEAR	23	2354	2357		N11	E60	7348	11	28.5		SF		3	E		26		
0190	LEAR	24	0534	0534	0547	S09	W83	7342	11	18.0	13	SF C	1.8	3	E		35		
0191	LEAR	24	0653	0653	0658	N12	E56	7348	11	28.5	5	SF		3	E		25		
0192		24	08272	08281	0834	S08	W30	7347	11	22.1	7	SF					46		
	LEAR	24	0827	0828	0833	S07	W29	7347	11	22.2	6	SF		3	E		46		
	KANZ	24	0829	0829	0835	S08	W30	7347	11	22.1	6	SF		2	C				
0193	KANZ	24	0927	0927	0947	S15	E73	7351	11	29.9	20	SF		2	C				
0194	KANZ	24	0927	0935	0943	S13	W42	7347	11	21.2	16	SF		2	C				

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks	
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0195	KANZ	24	1107	1107	1127	S24	W28	7345	11	22.3	20	SF		2	C					
0196	KANZ	24	1303	1319	1339D	S18	W41		11	21.4	36D	SF		2	C					
0197	KANZ	24	1307	1307	1319	S05	W05	7346	11	24.2	12	SF		2	C					
0198	PALE	24	2005	2005	2011	N09	E52	7348	11	28.7	6	SF		3	E		14			
		24	2104		2115	No Flare Patrol														
0199	PALE	24	2214	2215	2219	S17	E64	7351	11	29.8	5	SF		3	E		16			
		24	2316		2333	No Flare Patrol														
		24	2335		2337	No Flare Patrol														
0200		25	02392	02399	0256	N14	E54	7348	11	29.2	17	SF	C 2.3				31			F
	LEAR	25	0239	0239	0302	N14	E53	7348	11	29.1	23	SF	C 2.3	3	E		38			F
	PALE	25	0241	0248	0249	N14	E54	7348	11	29.2	8	SF		3	E		24			F
0201	HOLL	25	1619	1634	1659	N10	E41	7348	11	28.8	40	SF		3	E		33			
0202	LEAR	26	0119	0119	0147	N10	E41	7348	11	29.1	28	SF	C 1.6	3	E		37			F
0203		26	05274	05332	0610	N11	E37	7348	11	29.0	43	1B					154	2.0		EU
	TACH	26	0527	0533	0605	N12	E34	7348	11	28.8	38	1B		3	C	0533	194	2.5		U
	MITK	26	0531	0535	0614	N10	E40	7348	11	29.2	43	SN				0535	113	1.5		E
0204		26	12395	12434	1309	N08	E30	7348	11	28.8	30	SF	C 2.8				36			F
	KANZ	26	1239	1243	1315	N06	E31	7348	11	28.8	36	SF		2	C					
	KANZ	26	1243	1247	1322	N11	E29	7348	11	28.7	39	SF		2	C					
	SVTO	26	1244	1246	1310	N10	E31	7348	11	28.8	26	SF	C 2.8	3	E		57			F
	RAMY	26	1244	1247	1250	N07	E29	7348	11	28.7	6	SF		3	E		14			
0205	KANZ	26	1303	1303	1303	S09	W38	7346A	11	23.7	6	SF		2	C					
0206	HOLL	26	1806	1810	1821	S21	E36	7350	11	29.5	15	SF		3	E		25			
0207	HOLL	26	2143	2145	2229	N09	E28	7348	11	29.0	46	SF	C 1.8	3	E		29			F
0208	LEAR	26	2340	2341	2350	N09	E27	7348	11	29.0	10	SF		3	E		18			F
0209	LEAR	27	0554	0555	0605	N18	E20	7352	11	28.8	11	SF		3	E		21			F
0210	LEAR	27	0611	0615	0628	N12	E25	7348	11	29.1	17	SF		3	E		28			F
0211	KANZ	27	1228	1244	1332	N11	E19	7348	11	28.9	64	1F		2	C					
0212	KANZ	27	1304	1304	1308	N20	E18	7352	11	28.9	4	SF		2	C					
		27	1341		1359	No Flare Patrol														
0213	HOLL	27	1400E	1403U	1420	N11	E18	7348	11	28.9	20D	SF	C 2.5	1	E		19			F
0214	HOLL	27	1559	1605	1616	S09	W58	7346	11	23.3	17	SF		3	E		23			
0215	HOLL	27	1705	1722	1747	N20	E16	7352	11	28.9	42	SF	C 1.1	3	E		35			F
0216	HOLL	27	1736	1737	1743	S03	E56	7353	12	1.9	7	SF		3	E		25			H
0217	HOLL	27	2230	2241	2244	N11	E19	7348	11	29.4	14	SF	C 1.2	3	E		11			
		27	2300		2325	No Flare Patrol														
		27	2327		2400	No Flare Patrol														
0218		28	0014	0015	0034	N12	E12	7348	11	28.9	20	SF	C 2.1				62			F
	PALE	28	0014	0015	0030	N12	E12	7348	11	28.9	16	SF	C 2.1	3	E		45			F
	LEAR	28	0014	0015	0039	N11	E12	7348	11	28.9	25	SF	C 2.1	3	E		80			F
		28	0035		0104	No Flare Patrol														

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Nov 92

H $\alpha$  SOLAR FLARES

NOVEMBER 1992

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement		Remarks
																Time (UT)	Apparent (10-6 Disk)	
0219		28	08316	0831*	0859	N12	E11	7348	11	29.2	28	SF	B	8.3			14	F
	KANZ	28	0831	0831	0859	N11	E13	7348	11	29.3	28	SF			2	C		
	SVTO	28	0831	0831	0902	N12	E08	7348	11	28.9	31	SF	B	8.3	3	E	11	F
	LEAR	28	0837	0849	0857	N12	E12	7348	11	29.3	20	SF			3	E	16	F
0220		28	09412	09421	0947	N12	E09	7348	11	29.1	6	SF	C	1.2			16	F
	LEAR	28	0941	0942	0948	N13	E09	7348	11	29.1	7	SF	C	1.2	3	E	17	F
	SVTO	28	0942	0943	0947	N11	E06	7348	11	28.8	5	SF			3	E	15	F
	KANZ	28	0943	0943	0947	N12	E11	7348	11	29.2	4	SF			2	C		
0221		28	10562	1059	1118	S15	E16	7351	11	29.7	22	SF	B	9.5			29	FU
	SVTO	28	1056	1059	1118	S14	E15	7351	11	29.6	22	SF	B	9.5	3	E	29	UF
	KANZ	28	1058		1058D	S16	E16	7351	11	29.7	22D	SF			2	C		
0222	SVTO	28	1212	1213	1242	N12	E06	7348	11	29.0	30	SF			3	E	27	F
0223	SVTO	28	1212	1214	1219	S10	W68	7346	11	23.4	7	SF	C	1.5	3	E	33	F
		28	1244		1255	No Flare Patrol												
0224		28	1355*	1359*	1419	N12	E08	7348	11	29.2	24	SF					18	F
	SVTO	28	1355	1359	1408	N11	E04	7348	11	28.9	13	SF			3	E	24	F
	RAMY	28	1407	1412	1430	N12	E09	7348	11	29.3	23	SF			3	E	11	
	KANZ	28	1408E		1408D	N13	E10	7348	11	29.3	23D	SF			2	C		
		28	1456		1510	No Flare Patrol												
0225		28	16051	16061	1657	N11	E04	7348	11	29.0	52	SF	C	3.6			52	EF
	HOLL	28	1605	1606	1657	N11	E04	7348	11	29.0	52	SF	C	3.6	3	E	49	FE
	RAMY	28	1606	1607	1614D	N11	E05	7348	11	29.0	8D	SF	C	3.6	3	E	54	F
0226	HOLL	28	1903	1934	2000	N11	E05	7348	11	29.2	57	SN	C	1.8	3	E	87	EF
0227	HOLL	28	1959	2000	2006	S08	W72	7346	11	23.4	7	SF			3	E	63	H
0228		28	2001	2017*	2134	N12	E06	7348	11	29.3	93	1N	C	2.8			142	FK
	HOLL	28	2001	2017	2134	N12	E06	7348	11	29.3	93	1N	C	2.8	3	E	148	F
	HOLL	28	2001	2048	2134	N12	E06	7348	11	29.3	93	1N				E	137	K
0229	HOLL	28	2228	2234	2237	S16	E07	7351	11	29.5	9	SF			3	E	15	
		28	2344		2400	No Flare Patrol												
		29	0000		0001	No Flare Patrol												
		29	0037		0049	No Flare Patrol												
0230	LEAR	29	0057	0057	0114	N20	E02	7352	11	29.2	17	SF	B	7.7	3	E	24	
0231	LEAR	29	0530	0532	0541	N12	W05	7348	11	28.8	11	SF	B	7.5	3	E	22	F
0232	LEAR	29	1029E	1031	1033	N08	W12	7348	11	28.5	4D	SF			2	E	57	F
0233		29	1230	1233	1250	S16	E00	7351	11	29.5	20	1B	M	1.4			270	4.1
	RAMY	29	1230	1233	1250	S16	W01	7351	11	29.4	20	1N	M	1.4	3	E	159	FE
	ATHN	29	1232E	1233	1239D	S17	E02	7351	11	29.7	7D	1B			3	V	1233	382
0234	HOLL	29	1702	1708	1812	N12	W07	7348	11	29.2	70	SF	C	1.2	3	E	30	F
0235	HOLL	29	1707	1717	1817	N20	W09	7352	11	29.0	70	SF			3	E	47	F
		29	1840		1925	No Flare Patrol												
0236	HOLL	29	2000	2009	2034	N20	W09	7352	11	29.1	34	SF	C	1.1	3	E	23	
		29	2228		2240	No Flare Patrol												
		29	2325		2343	No Flare Patrol												
0237	LEAR	29	2339	2343	2422	N21	W15	7352	11	28.8	43	SF			2	E	38	F
0238	LEAR	29	2343	2349	2354	N12	W10	7348	11	29.2	11	SF	C	2.0	2	E	28	

NOVEMBER 1992

Grp #	Sta	Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement		Remarks	
														Time (UT)	Apparent (10-6 Disk)		Corr (Sq Deg)
0239		30 0022	0024	0035D	N10	W15	7348	11	28.9	13D	SF	C	1.4		49		
	PALE	30 0016E	0023U	0034D	N10	W15	7348	11	28.9	18D	SF			2	E	43	
	LEAR	30 0022	0024	0035D	N11	W15	7348	11	28.9	13D	SF	C	1.4	2	E	55	
0240	LEAR	30 0649	0659	0713	N19	W18	7352	11	28.9	24	SF			3	E	53	F
0241	LEAR	30 0649	0700	0708	N12	W14	7348	11	29.2	19	SF	C	1.4	3	E	16	F
0242		30 0932	0932	0946	N12	W16	7348	11	29.2	14	SF					35	F
	LEAR	30 0932	0932	0944	N12	W16	7348	11	29.2	12	SF			3	E	35	F
	KANZ	30 0932	0932	0948	N12	W15	7348	11	29.3	16	SF			2	C		
0243		30 1100	1120	1146	N20	W22	7352	11	28.8	46	SF					15	F
	KANZ	30 1100	1120	1144	N20	W21	7352	11	28.8	44	SF			2	C		
	SVTO	30 1116E	1127U	1148	N19	W22	7352	11	28.8	32D	SF			2	E	15	F
0244		30 1245	1248	1319	N19	W22	7352	11	28.8	34	SF	C	5.5			45	F
	RAMY	30 1245	1248	1304	N19	W21	7352	11	28.9	19	SF	C	5.5	3	E	45	F
	KANZ	30 1258E	1258U	1334	N19	W22	7352	11	28.9	36D	SF			2	C		
0245		30 1250	1306	1320	S22	W04	7350	11	30.2	30	SF					18	F
	RAMY	30 1250	1306	1313	S22	W04	7350	11	30.2	23	SF			3	E	18	F
	KANZ	30 1258E	1306	1326	S21	W05	7350	11	30.1	28D	SF			2	C		
0246	RAMY	30 1511	1513	1518	N13	W19	7348	11	29.2	7	SF	C	1.4	4	E	35	F
0247		30 1935E	1935U	2006	S05	E14	7353	12	1.9	31D	1B	M	2.6			112	F
	RAMY	30 1935E	1935U	2006	S05	E14	7353	12	1.9	31D	1N	M	2.6	3	E	111	F
	HOLL	30 1937E	1937U	2223D	S05	E14	7353	12	1.9	166D	1B	M	2.6	1	E	113	F
		30 2010		2034	No Flare Patrol												
		30 2041		2122	No Flare Patrol												
		30 2124		2133	No Flare Patrol												
		30 2225		2400	No Flare Patrol												

"Remarks"

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|---|---|
| <p>A = Eruptive prominence whose base is less than 90 degrees from central meridian.<br/>                 B = Probably the end of a more important flare.<br/>                 C = Invisible 10 minutes before.<br/>                 D = Brilliant point.<br/>                 E = Two or more brilliant points.<br/>                 F = Several eruptive centers.<br/>                 G = No visible spots in the neighborhood.<br/>                 H = Flare accompanied by high-speed dark filament.<br/>                 I = Active region very extended.<br/>                 J = Distinct variations of plage intensity before or after the flare.<br/>                 K = Several intensity maxima.<br/>                 L = Existing filaments show signs of sudden activity.<br/>                 M = White-light flare.<br/>                 N = Continuous spectrum shows effects of polarization.</p> | <p>O = Observations have been made in the H and K lines of Ca II.<br/>                 P = Flare shows Helium D3 in emission.<br/>                 Q = Flare shows Balmer continuum in emission.<br/>                 R = Marked asymmetry in H-alpha line suggests ejection of high-velocity material.<br/>                 S = Brightness follows disappearance of filament in same position.<br/>                 T = Region active all day.<br/>                 U = Two bright branches, parallel or converging.<br/>                 V = Occurrence of an explosive phase; important, expansion within roughly 1 minute that often includes a significant intensity increase.<br/>                 W = Great increase in area after time of maximum intensity.<br/>                 X = Unusually wide H-alpha line.<br/>                 Y = System of loop-type prominences.<br/>                 Z = Major sunspot umbra covered by flare.</p> |
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Observation Type: C=Cinematographic, E=Electronic, P=Photographic, V=Visual